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NOTICE OF ALLOWANCE AND FEE(S) DUE

47052 7590 08/01/2008 SAWYER LAW GROUP LLP 2465 E. Bayshore Road, Suite No. 406

PALO ALTO, CA 94303

EXAMINER

ROBINSON BOYCE, AKIBA K

ART UNIT PAPER NUMBER

3628 DATE MAILED: 08/01/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/207,130	12/08/1998	DANIEL VIERA CONRAD	RA9-98-053	6377

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING EMULATION OBJECGTS FOR DEVELOPING POINT OFSALE APPLICATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the 1880 ig the Patent, advance of herwise in Block 1, by (rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres trate "F	pondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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								(Depositor's name)
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								(Date)
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09/207,130 TITLE OF INVENTION	12/08/1998 I: METHOD AND SYST		DANIEL VIERA CONRAI ATION OBJEC6TS FOR			RA9-98-053 FSALE APPLICATIO	ON	6377
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nonprovisional	NO	\$1440	\$300	\$0	0 \$1740			11/03/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
ROBINSON BO	YCE, AKIBA K	3628	705-007000					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoe listed, no name will be THE PATENT (print or typ data will appear on the p T a substitute for filing an a (B) RESIDENCE: (CITY	3 registered patent rely, e firm (having as a gent) and the name meys or agents. If n printed. be) stent. If an assigne assignment.	memb s of u so nam	er a 2p to be is 3	ocume	nt has been filed for
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Advance Order -	No small entity discount p	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.		
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no long					
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regis	tered a	uttorney or agent; or th	e assig	nee or other party in
Authorized Signature				Date				
Typed or printed name				Registration No				
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC i13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and 1 D THIS ADDRESS.	ie publ ninutes mment Fraden . SENI	ic which is to file (and to complete, including s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	l by the ig gathe ne you artment for Pate	USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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SAWYER LAW GROUP LLP			ROBINSON BOYCE, AKIBA K		
2465 E. Bayshore Road, Suite No. 406 PALO ALTO, CA 94303			ART UNIT PAPER NUMBER		
			3628		

DATE MAILED: 08/01/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1369 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1369 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/207,130	CONRAD ET AL.	
Examiner	Art Unit	
AKIBA K. ROBINSON BOYCE	3628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to communications filed 6/1/04.
- The allowed claim(s) is/are 1-15.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6. Interview Summary (PTO-413), Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

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Allowable Subject Matter

Claims 1-15 are allowed.

- 2. Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office Action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.
- The following is an examiner's statement of reasons for allowance. None of the prior art of record either individually or in combination teach the following:
- an emulation module and an application both interfacing directly with an operating system of the development system.

The present invention discloses a method and system for allowing testing of an application for point-of-sale (POS) equipment to facilitate development of the application. Here, an emulation module is used corresponding to the specialized devices that can be used to emulate, on the development system, the interaction between the application and the devices that will occur when the application is later executed on the POS equipment, and in this case, the emulation module and the application both interface directly with the operating system of the development system. The allowable feature providing an emulation module and an application both interfacing directly with an operating system of the development system is not disclosed by any

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prior art reference. The closest prior art, Binkley (US 5,088,033) discloses a host system having a host processor and an emulating processor that executes sequences of instructions the same as a central processor of the target system, while the host processor provides emulations of input and output signals corresponding to the I/O devices of the target system. In Binkley, the I/O devices are emulated by the host system using a separate processor that has a specialized operating system which performs only I/O operations, and an application of the target system executed on the emulating processor would interface with the operating system of the emulating processor, while the emulation module that emulates the I/O devices of the target system would interface with a different, specialized operating system of a separate processor of the host system. The next closest prior art, Weber (US 5.812.668) discloses a system for the verification of the operation of a remote transaction clearance system where a merchant-controlled computer transmits test transactions to a test computer, and the test computer responds with simulated transaction responses including configuration data that the merchant-operated computer uses to configure itself. Newly cited art, Adachi (JP 60017539) discloses a system where an interface program is installed between the operating system of the native machine and the program of the target machine. Once emulation is started, the instructions issued in the target machine are converted to the instruction to the operating system of the native machine. The next newly closest prior art. Emulation Technology's press release, "EMULATION TECHNOLOGY INTRODUCES INDUSTRY'S FIRST PC-BASED INCIRCUIT "OPEN EMULATOR" SUPPORTING 8-.

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16-, AND 32-BIT EMBEDDED MPU APPLICATIONS" discloses a system establishing new standards for ease-of development and flexibility in test environments by disclosing a multifunction, real-time, in-circuit emulator targeted for 8-, 16 and 32-bit applications. However, Binkley, Weber, Adachi and the Emulation technology press release all fail to disclose the feature of providing an emulation module and an application both interfacing directly with an operating system of the development system. This distinct feature has been added to independent claims 1, 7, 8, 14 and 15 and renders them and all claims that depend from them (claims 2-6 and 9-13) allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Akiba K Robinson-Boyce whose telephone number is 571-272-6734. The examiner can normally be reached on Monday-Friday 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hayes can be reached on 571-272-6708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the *Patent Application Information Retrieval (PAIR) system, Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900

A. R. B. July 30, 2008

> /Akiba K Robinson-Boyce/ Primary Examiner, Art Unit 3628

800-786-9199 (IN USA OR CANADA) or 571-272-1000.